

CLAIMS

Having thus described the aforementioned invention, we claim:

1. An apparatus for a residential low voltage control system operated by a door, said apparatus comprising:

5 a controlled device;

a switch actuated by the door, said switch having a ball actuator;

an electrical box containing a plurality of power conductors, at least one of said plurality of power conductors connected to said controlled device; and

10 a controller having a face plate and a low voltage terminal block, said controller mounted in said electrical box with said face plate located adjacent to and parallel to a major opening of said electrical box, said face plate adapted to secure a cover plate to said face plate, said controller connected to a circuit including said plurality of power conductors whereby said controller controls the operation of said controlled device, said controller outputting a low voltage signal to
15 said switch through said low voltage terminal block, said low voltage terminal block having a plurality of terminals accessible from a front side of said face plate, said low voltage terminal block adapted to route a plurality of low voltage conductors from said plurality of terminals out of said electrical box while maintaining separation from said plurality of power conductors inside said electrical box.

20 2. The apparatus of Claim 1 wherein said face plate has a recessed portion in which said low voltage terminal block is accessible from said front side.

3. The apparatus of Claim 1 wherein said face plate has a recessed portion and a pair of mounting portions, said low voltage terminal block received in an aperture in said recessed portion, said pair of mounting portions adapted to
25 secure said face plate to said electrical box, said pair of mounting portions adapted to secure a cover plate to said face plate.

4. The apparatus of Claim 1 wherein said face plate has a substantially flat surface, said low voltage terminal block received in an aperture in said substantially flat surface.

5 5. The apparatus of Claim 1 wherein said switch is mounted in a upper horizontal frame member of the door whereby a top surface of said door actuates said ball actuator when the door is in a closed position.

6. A controller for a residential low voltage control system, said controller adapted to be received by an electrical box, said controller comprising:

10 a face plate having a front side and a back side, said face plate adapted to secure said face plate to the electrical box, said face plate adapted to secure a cover plate to said face plate;

a module for controlling a driven device, said module secured to said back side of said face plate, said module having power connections; and

15 a terminal block accessible from a front side of said face plate for making a plurality of low voltage terminations, said terminal block electrically connected to said module for communicating at least one low voltage control signal,

said terminal block adapted to route a plurality of low voltage conductors from said terminal block out of the electrical box while maintaining separation from said power connections inside said electrical box.

20 7. The controller of Claim 6 wherein said face plate has a recessed portion in which said low voltage terminal block is accessible from said front side.

8. The controller of Claim 6 wherein said face plate has a recessed portion and a pair of mounting portions, said low voltage terminal block received in an aperture in said recessed portion, said pair of mounting portions adapted to

secure said face plate to said electrical box, said pair of mounting portions adapted to secure a cover plate to said face plate.

9. The controller of Claim 6 wherein said face plate has a substantially flat surface, said low voltage terminal block received in an aperture in said
5 substantially flat surface.

10. The controller of Claim 6 wherein said face plate has a substantially flat surface, said low voltage terminal block received in an aperture in said substantially flat surface, said low voltage terminal block having a low profile.

11. A controller for a residential low voltage control system, said
10 controller adapted to be received by an electrical box, said controller comprising:

a means for securing a low voltage controller in an electrical box;

a means for terminating a plurality of low voltage conductors to said controller; and

a means for isolating said plurality of low voltage conductors from a plurality
15 of power conductors in said electrical box.

12. The controller of Claim 11 wherein said means for isolating includes a controller having a face plate with a recessed portion, said means for terminating located in said recessed portion.

13. The controller of Claim 11 wherein said means for isolating includes a
20 controller having a face plate with a recessed portion and a pair of mounting portions, said means for terminating located in said recessed portion.

14. The controller of Claim 11 wherein said means for isolating includes a controller having a face plate that is substantially flat, said means for terminating protruding from an opening in said face plate.